

# **APPENDIX 1**

## **Water Level Data**

**Appendix 1**  
**Water Level Data**  
**Muscoy Plume OU RI/FS**

<b>Well Number</b>	<b>Top of Casing (TOC) Elevation (ft.)</b>	<b>Depth to Water (ft. from TOC)</b>	<b>Groundwater Elevation (ft. from TOC)</b>
MUNI-101 Olive and Garner	1130.00	189.5	940.5
MUNI-102 Baseline	1185.56	155	1030.56
MUNI-103 State St.	1214.58	158.58	1056.0
MUNI-104 19th St. #1	1231.03	207.5	1023.53
MUNI-105 Mt. Vernon	1258.75	229	1029.75
MUNI-107 Colima	1278	253	1025.0
MUNI-108 Mallory	1319.84	249	1070.84
MUNI-109 Paperboard	1328.00	293.53	1034.47
MUNI-112 Cajon Wash #3	1665.00	39.0	1626.0
MUNI-25 10th and J St.	1110.00	154	956.00

## **APPENDIX 2**

### **Sample Alteration Checklists**

Exhibit 2.4-7

Sample Alteration Checklist

NEWMARK GROUNDWATER CONTAMINATION SUPERFUND

Project Name and Number: SITE - MWS04 ON INTERIM SAMPLING - 62251.50, 40, 50

Material to be Sampled: ORGANIC-FREE WATER

Measurement Parameter: SAS DRINKING WATER VOCs

Standard Procedure for Field Collection and Laboratory Analysis (cite references): SAMPLE PLAN SECTION 6.8.3, P 84 "ONE TB (TRIP BLANK), SCHEDULED FOR ANALYSIS OF VOCs, WILL BE INCLUDED IN EACH SHIPPING CONTAINER WITH VOC WATER SAMPLES"

Reason for Change in Field Procedure or Analytical Variation: OVERLOOKED THE NEED TO INCLUDE THE VOC TRIP BLANK ON THIS SHIPMENT,

Variation from Field or Analytical Procedure: DID NOT INCLUDE A TRIP BLANK WITH THE SAS DRINKING WATER VOC SAMPLES SHIPPED A ONE LEAD VOC WATER SAMPLE, ON 4/28/93 LG 4/28/93

Special Equipment, Materials or Personnel Required:

Initiators Name: Jay Z - FIELD COORDINATOR

Date: 04/29/93

Project Approval: [Signature] - SITE MANAGER

Date: 04/29/93

Laboratory Approval:

Date:

QA Officer/Reviewer:

Date:

TDMT Filing:

Date:

Exhibit 2.4-7

Sample Alteration Checklist

NEWARK GROUNDWATER CONTAMINATION SUPERFUND

Project Name and Number: SITE - MUSCON ON INTERIM SAMPLING - 62251, SO. 40

Material to be Sampled: ORGANIC-FREE WATER

Measurement Parameter: GAS DRINKING WATER VOLs

Standard Procedure for Field Collection and Laboratory Analysis (cite references): SAMPLE PALAN  
TABLE 5-2) COLLECT A FIELD BLANK WHILE SAMPLING  
MUNICIPAL WELL MUNI-112-01, CALLED WFI112-01

Reason for Change in Field Procedure or Analytical Variation: MUNI-112 was NOT  
available for sample on the scheduled day

Variation from Field or Analytical Procedure: COLLECTED THE FIELD BLANK  
WHILE SAMPLING MUNI-110-01 CALLED WFI110-01.  
NO CHANGE IN TOTAL NUMBERS OF ANALYSES

Special Equipment, Materials or Personnel Required:

Initiators Name:

Lay Zin - FIELD COORDINATOR

Date:

11/29/93

Project Approval:

[Signature] - SITE MANAGER

Date:

04/29/93

Laboratory Approval:

Date:

QA Officer/Reviewer:

Date:

TDMT Filing:

Date:

Exhibit 2.4-7

Sample Alteration Checklist

NEWARK (W/ CONTAMINATION) SUPERFUND SITE -

Project Name and Number: MUSCOY<sup>W</sup> INTERIM SAMPLING 62251.50.50

Material to be Sampled: ORGANIC-FREE WATER

Measurement Parameter: GAS DRINKING WATER VOL'S

Standard Procedure for Field Collection and Laboratory Analysis (cite references): SECOND

FIELD ~~18~~ 18/13 TRIP BLANK SHIPPED FROM SITE CALLED  
WTROZ-01 (TABLE 5-1 P 46 SAMPLE PLAN)

Reason for Change in Field Procedure or Analytical Variation: ACCIDENTALLY NUMBERED  
AS WTRO1-02.

Variation from Field or Analytical Procedure: NO CHANGE IN ANALYSES  
TOTALS.

Special Equipment, Materials or Personnel Required: \_\_\_\_\_

Initiators Name: Lay 3<sup>rd</sup> - FIELD COORDINATOR Date: 04/29/93

Project Approval: [Signature] - SITE MANAGER Date: 04/29/93

Laboratory Approval: \_\_\_\_\_ Date: \_\_\_\_\_

QA Officer/Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

TDMT Filing: \_\_\_\_\_ Date: \_\_\_\_\_

Exhibit 2.4-7

Sample Alteration Checklist

NEWMARK GROUNDWATER CONTAMINATION SUPERFUND 40  
SITE - MUSCOY 00 INTERIM SAMPLING 62251, 50. 50

Project Name and Number:

Material to be Sampled: GROUNDWATER

Measurement Parameter: MATRIX SPIKE AND MATRIX SPIKE DUPLICATE LAB ANALYSES

Standard Procedure for Field Collection and Laboratory Analysis (cite references): SAMPLE PLAN  
TABLES 5-1 AND 5-2) DESIGNATE WMW06A-21 AS  
A LAB QL (MS/MSD).

Reason for Change in Field Procedure or Analytical Variation: WANTED TO ASSIGN  
A LAB QL (MS/MSD) AT THE BEGINNING OF THE  
SAMPLING EVENT. RSL NOTED THAT BOTH WMW06A-21  
AND MUNI-III-01 WERE BOTH ASSIGNED LAB QL AND  
WERE IN THE SAME SDG. MUNI-III-01 WAS CHOSEN  
SINCE IT ENCOMPASSES ALL ANALYSES FOR WHICH LAB QL CAN BE DONE.

Variation from Field or Analytical Procedure: MUNI-III-01 ORGANICS (BNA & P/PER), TPH (G&D),  
TOTAL METALS AND APPLICABLE WATER CHEMISTRY  
ANALYSIS USED FOR MS/MSD OF FIRST  
SAMPLE DELIVERY GROUP FOR MUSCOY SAMPLING.  
NO CHANGE IN ANALYSES OR TOTALS

Special Equipment, Materials or Personnel Required:

Initiators Name:

LY JIN - FIELD COORDINATOR  
JHO - SITE MANAGER

Date:

04/29/93

Project Approval:

Date:

04/29/93

Laboratory Approval:

Date:

QA Officer/Reviewer:

Date:

TDMT Filing:

Date:

Exhibit 2.4-7

Sample Alteration Checklist

NEWMARK GROUNDWATER CONTAMINATION SUPERFUND

Project Name and Number: SITE - MUSEUM ON INTERIM SAMPLING 62251.50, 40

Material to be Sampled: —

Measurement Parameter: —

Standard Procedure for Field Collection and Laboratory Analysis (cite references): SAMPLE PLAN  
SECTION 6.10 P 55, "ALL AVAILABLE INFORMATION WILL BE RECORDED ON THE MUNICIPAL WELL INFORMATION SHEET..."

Reason for Change in Field Procedure or Analytical Variation: NO ADDITIONAL INFORMATION  
WAS AVAILABLE TO COLLECT - ALL AVAILABLE INFO  
HAD ALREADY BEEN COLLECTED, IN ADDITION, SOME  
CRITICAL INFO. SUCH AS DEPTH TO WATER IS RECORDED  
ON THE MONITORING WELL DATA SHEET.

Variation from Field or Analytical Procedure: HALTED THE REQUIRED  
COMPLETION AND USE OF THE MUNICIPAL WELL  
INFO. SHEET

Special Equipment, Materials or Personnel Required: —

Initiators Name: J. J. - FIELD COORDINATOR

Date: 04/29/93

Project Approval: [Signature] - SITE MANAGER

Date: 04/29/93

Laboratory Approval: —

Date: —

QA Officer/Reviewer: —

Date: —

TDMT Filing: —

Date: —



Exhibit 2.4-7

Sample Alteration Checklist

NEWMARK GROUNDWATER CONTAMINATION SUPERFUND

Project Name and Number: SITE - MUSCOY CO INTERIM SAMPLING 62251.50,40

Material to be Sampled: GROUND WATER

Measurement Parameter: VOAS, BVA, P/RS, TPH 64D, TOTAL METALS, ANIONS, EC, PH  
ALKALINITY, TDS, & TOTAL HARDNESS

Standard Procedure for Field Collection and Laboratory Analysis (cite references): SAMPLE PLAN  
TABLE 4-2 P 40 - MWI-110 & MWI-111 URS DESIGNATIONS  
APPLY TO MUSCOY MUTUAL WATER COMPANY WELLS  
# 5 AND # 2, RESPECTIVELY.

Reason for Change in Field Procedure or Analytical Variation: WELLS #5 AND #2  
NOT SAMPLEABLE DUE TO INOPERABLE STATUS.

Variation from Field or Analytical Procedure: MUSCOY MUTUAL CO. WELLS  
#3 AND #1 USED IN PLACE OF #5 AND #2  
FOR MWI-110 & MWI-111, NO CHANGE IN  
NUMBER OF ANALYSES.

Special Equipment, Materials or Personnel Required:

Initiators Name: Ly Yin - FIELD COORDINATOR Date: 04/29/93

Project Approval: [Signature] - SITE MANAGER Date: 04/29/93

Laboratory Approval: Date:

QA Officer/Reviewer: Date:

TDMT Filing: Date:

## Exhibit 2.4-7

## Sample Alteration Checklist

NEWARK GROUNDWATER CONTAMINATION SUPERFUND

Project Name and Number: SITE - MUSCOY ON INTERIM SAMPLING - 62251.50.

Material to be Sampled: GROUNDWATER

Measurement Parameter: SAS VOCs, ANIONS, ALKALINITY, TOTAL HARDNESS &amp; PAB TOTAL METALS

Standard Procedure for Field Collection and Laboratory Analysis (cite references): SAMPLE PLAN

REV 0 TABLE 5-1, LMN011-21 WILL BE

SAMPLED FOR THE MEASUREMENT PARAMETERS

LISTED ABOVE.

Reason for Change in Field Procedure or Analytical Variation: POSSIBLE DAMAGE

OR LACK OF WATER IN PORT I CREATED

MINUTE SAMPLE "SLUGS" OF WATER

Variation from Field or Analytical Procedure: ONLY ONE 40 ml VOA VIAL

WAS COLLECTED FOR SAS DW VOC ANALYSIS, NO

OTHER SAMPLE VOLUME COULD BE COLLECTED, MET

RESULT - ONE LESS SAS ANIONS, ALKALINITY,

TOTAL HARDNESS &amp; PAB TOTAL METALS SAMPLE

WAS COLLECTED

Special Equipment, Materials or Personnel Required:

Initiators Name:

- FIELD COORDINATOR

Date: 5/5/93

Project Approval:

- SITE MANAGER

Date: 5/5/93

Laboratory Approval:

Date:

QA Officer/Reviewer:

Date:

TDMT Filing:

Date:

## Exhibit 2.4-7

## Sample Alteration Checklist

NEWMARK GROUNDWATER CONTAMINATION SUPERFUND

Project Name and Number: SITE - MUSCOY OU INTERIM SAMPLING - 62251.50.

Material to be Sampled: GROUNDWATER

Measurement Parameter: SAT VOLS, AMMONS, ALKALINITY, TOTAL HARDNESS &  
RAS TOTAL METALSStandard Procedure for Field Collection and Laboratory Analysis (cite references): SAMPLE PLAN REV D  
SECTION 6.2.3 P. 66, "PRIOR TO THE COLLECTION OF THE  
GROUNDWATER SAMPLES, EACH SAMPLING PORT INTERVAL  
WILL BE PURGED OF ONE INTERVAL VOLUME (EQUIVALENT TO 12.5 GALS)Reason for Change in Field Procedure or Analytical Variation: SAMPLING INTERVALS  
G, H, & I WERE EXTREMELY DIFFICULT TO  
EXTRACT WATER FROM DUE TO UNKNOWN PROBLEMS.  
AFTER AN EXTENSIVE AMOUNT OF TIME SPENT  
ON EACH PORT, THE PROJECT SCHEDULE DEMANDS  
SAMPLING.Variation from Field or Analytical Procedure: PRIOR TO SAMPLING THE FOLLOWING  
VOLUMES WERE PURGED FROM THE MWU1 INTERVALS:

PORT	PURGED (GALS)
G	3.25
H	7.0
I	1.125

ALL OTHER INTERVALS WERE PURGED OF 12.5 (OR GREATER) GALS.  
Special Equipment, Materials or Personnel Required:

Initiators Name: [Signature] - FIELD COORDINATOR

Date: 5/5/93

Project Approval: [Signature] - SITE MANAGER

Date: 5/5/93

Laboratory Approval: \_\_\_\_\_

Date: \_\_\_\_\_

QA Officer/Reviewer: \_\_\_\_\_

Date: \_\_\_\_\_

TDMT Filing: \_\_\_\_\_

Date: \_\_\_\_\_

**Sample Alteration Checklist**

NEWMARK GROUNDWATER CONTAMINATION SUPERFUND

Project Name and Number: SITE - MUSCOY OU INTERIM SAMPLING - 62251.50.

Material to be Sampled: GROUNDWATER

Measurement Parameter: SAS DW VOLS, SAS ANIONS, ALKALINITY, TOTAL HARDNESS, AND PAS TOTAL METALS

Standard Procedure for Field Collection and Laboratory Analysis (cite references): SAMPLE PLAN

REV 0 TABLE 4-1 - PARKDALE SCHOOL WELL W3-2 (MW-11) TO BE SAMPLED.

Reason for Change in Field Procedure or Analytical Variation: TYPO IN PLAN

Variation from Field or Analytical Procedure: PARKDALE SCHOOL WELL W3-1 SAMPLED

Special Equipment, Materials or Personnel Required: \_\_\_\_\_

Initiators Name: [Signature]

- FIELD COORDINATOR

Date: 5/7/93

Project Approval: [Signature]

- SITE MANAGER

Date: 5/7/93

Laboratory Approval: \_\_\_\_\_

Date: \_\_\_\_\_

QA Officer/Reviewer: \_\_\_\_\_

Date: \_\_\_\_\_

TDMT Filing: \_\_\_\_\_

Date: \_\_\_\_\_

Exhibit 2.4-7

Sample Alteration Checklist

NEWMARK GROUNDWATER CONTAMINATION SUPERFUND

Project Name and Number: SITE - MUSCOY OU INTERIM SAMPLING - 62251.50.

Material to be Sampled: —

Measurement Parameter: SAMPLING LOCATION PHOTOGRAPHS

Standard Procedure for Field Collection and Laboratory Analysis (cite references): SAMPLE PLAN REV 0  
SECTION 6.2 LINES 16 & 17, "... TAKE AT LEAST ONE  
PHOTO OF EACH WELL SAMPLING LOCATION."

Reason for Change in Field Procedure or Analytical Variation: A LARGE NUMBER OF  
PHOTOS WERE TAKEN DURING THE NEWMARK REIFS.  
THE MAIN GOAL WAS TO HAVE PHOTOS OF WELLS  
NOT PHOTOGRAPHED BEFORE. THE PHOTOS NOT YET  
TAKEN OF MUSCOY OU WELLS <sup>MAY 12 STILLS</sup> WILL BE ACCOMPLISHED  
BY THE END OF THE NEXT GW SAMPLING EVENT DUE TO  
ACCESS PROBLEMS.

Variation from Field or Analytical Procedure: PHOTOGRAPHS WERE TAKEN  
ONLY OF WELLS NOT PREVIOUSLY PHOTOGRAPHED.  
PHOTOS OF MUSCOY WELLS WERE NOT COLLECTED AT  
THE BEGINNING OF THE EVENT DUE TO EQUIPMENT  
ISSUES.

Special Equipment, Materials or Personnel Required: \_\_\_\_\_

Initiators Name:  - FIELD COORDINATOR

Date: 5/7/93

Project Approval:  - SITE MANAGER

Date: 5/7/93

Laboratory Approval: \_\_\_\_\_

Date: \_\_\_\_\_

QA Officer/Reviewer: \_\_\_\_\_

Date: \_\_\_\_\_

TDMT Filing: \_\_\_\_\_

Date: \_\_\_\_\_

Exhibit 2.4-7

Sample Alteration Checklist

NEWMARK GROUNDWATER CONTAMINATION SUPERFUND

Project Name and Number: SITE - MUSCOY ON INTERIM SAMPLING - 62251.50.40

Material to be Sampled: EQUIPMENT RINSE WATER

Measurement Parameter: SAS DW VOLs, TPH GAS & DIESEL, RAS P/PCBs, BNA<sub>s</sub>, TOTAL METALS

Standard Procedure for Field Collection and Laboratory Analysis (cite references): SAMPLE PLAN  
REVISION Ø TABLE 5-2 P.48 AND SECTION 6.8.4 LINES 8 & 9,  
"AT LEAST ONE EQUIPMENT RINSE BLANK WILL BE ANALYZED  
PER TEN ENVIRONMENTAL SAMPLES COLLECTED.

Reason for Change in Field Procedure or Analytical Variation: THE SAMPLES COLLECTED  
FROM SAMPLING STATIONS MW-113, MW-114, & MW-115  
UTILIZED DEDICATED SAMPLING EQUIPMENT, THEREFORE  
NO RINSE WERE NEEDED.

Variation from Field or Analytical Procedure: ONE EQUIPMENT RINSE BLANK  
PER TEN ENVIRONMENTAL SAMPLES WAS NOT COLLECTED.  
NET RESULT, ONE TWO LESS SAMPLES COLLECTED FOR  
SAS DW VOLs, TPH GAS & DIESEL, RAS P/PCBs, BNA<sub>s</sub> &  
TOTAL METALS, SINCE WEQ11X-01 AND WEQ113-01 WERE  
NOT COLLECTED.

Special Equipment, Materials or Personnel Required: \_\_\_\_\_

Initiators Name: Jay Z

- FIELD COORDINATOR

Date: 5/25/93

Project Approval: D. J. [Signature]

- SITE MANAGER

Date: 5/25/93

Laboratory Approval: \_\_\_\_\_

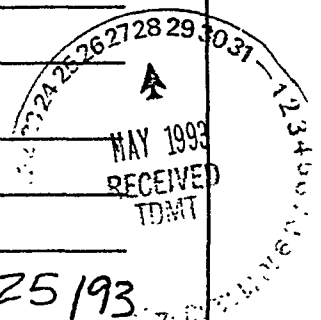
Date: \_\_\_\_\_

QA Officer/Reviewer: \_\_\_\_\_

Date: \_\_\_\_\_

TDMT Filing: \_\_\_\_\_

Date: \_\_\_\_\_



## Exhibit 2.4-7

Sample Alteration Checklist  
NEWMARK GROUNDWATER CONTAMINATION SUPERFUNDProject Name and Number: SITE - MUSCOY OV INTERIM SAMPLING - 62251, 50, 40Material to be Sampled: WATERMeasurement Parameter: KAS P/PCBs, BNAs, TOTAL METALS; SAS VOCs & TPH 6 & D &Standard Procedure for Field Collection and Laboratory Analysis (cite references): MUSCOY INTERIM  
SAMPLING PLAN REV D TABLE 5-2 <sup>BLANK</sup> SAMPLES LISTED  
FOR COLLECTION WEQ113-01, WEQ115-01, WTR13-01, WTR14-01,  
WTR15-01, & WTR16-01.Reason for Change in Field Procedure or Analytical Variation: THESE (EQ) EQUIPMENT RATES WERE  
NOT REQUIRED BECAUSE DEDICATED PUMPS WERE USED TO  
SAMPLE WELLS MW-113 & MW-114. TRIP BLANKS (TR)  
13 THROUGH 16 WERE NOT REQUIRED BEFORE SAMPLING  
WAS COMPLETEDVariation from Field or Analytical Procedure: 2 LESS P/PCB, BNA, TOTAL METALS  
AND TPH GAS A DIESEL SAMPLES AND 6 LESS  
SAS DW VOL SAMPLES COLLECTED THAN SCHEDULED

Special Equipment, Materials or Personnel Required: \_\_\_\_\_

Initiators Name: [Signature] - FIELD COORDINATORDate: 05/25/93Project Approval: [Signature] - SITE MANAGERDate: 05/28/93

Laboratory Approval: \_\_\_\_\_

Date: \_\_\_\_\_

QA Officer/Reviewer: \_\_\_\_\_

Date: \_\_\_\_\_

TDMT Filing: \_\_\_\_\_

Date: \_\_\_\_\_